

## CLAIMS

What is claimed is:

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Database

1. A method comprising:  
2. receiving input data of an event;  
3. processing said input data to generate positional data;  
4. generating semantic information based on said positional data; and  
5. transmitting said semantic information to an officiating entity of said event.

1. 2. A method according to claim 1, wherein said event is a sporting event.

1. 3. A method according to claim 2, wherein said sporting event is a soccer game.

1. 4. A method according to claim 1, wherein said officiating entity is an event official.

1. 5. A method according to claim 1, further comprising:  
2. generating an event model from said positional data and said semantic  
3. information; and  
4. storing said event model in an event model database.

1. 6. A method according to claim 5, further comprising querying said event model  
2. database for an officiating event.

1. 7. A method according to claim 1, further comprising generating an animation based  
2. on said positional data.

1. 8. A method according to claim 7, further comprising transmitting said animation to

2 said officiating entity.

1 9. A method according to claim 1, further comprising transmitting said semantic  
2 information to an officiating interface.

1 10. A system comprising:

2 an officiating data unit to generate officiating event data; and  
3 an officiating device to receive said officiating event data.

1 11. The system of claim 10, wherein said officiating data unit comprises a tracking  
2 system to receive input data and generate positional data from said input data.

1 12. The system of claim 11, wherein said officiating data unit comprises:

2 an event model generator to generate an event model from said positional data;  
3 and  
4 an event model database to store said event model.

1 13. The system of claim 12, wherein said officiating data unit comprises:

2 an officiating data extractor to query said event model database for officiating  
3 event data; and  
4 an officiating interface to receive said officiating event data and transmit said  
5 officiating event data to said officiating device.

1 14. The system of claim 13, wherein said officiating interface receives officiating  
2 decision data from said officiating device.

1 15. The system of claim 14, wherein said event model includes said officiating

2 decision data.

1 16. The system of claim 10, further comprising an event animation unit to generate an  
2 animation from said officiating event data. 16>

1 17. The system of claim 16, further comprising an officiating interface to receive said  
2 animation and transmit said animation to said officiating device.

1 18. The system of claim 16, wherein said officiating device receives said animation.

1 19. A machine-readable medium having stored thereon data representing sequences  
2 of instructions, said sequences of instructions which, when executed by a processor,  
3 cause said processor to:  
4 receive input data of an event;  
5 process said input data to generate positional data;  
6 generate semantic information based on said positional data; and  
7 transmit said semantic information to an officiating entity of said event.

1 20. The machine-readable medium of claim 19, wherein said event is a sporting  
2 event.

1 21. The machine-readable medium of claim 20, wherein said sporting event is a  
2 soccer game.

1 22. The machine-readable medium of claim 19, wherein said officiating entity is a  
2 referee.

1 23. The machine-readable medium of claim 19, wherein said sequences of

2 instructions further cause said processor to:  
3 generate an event model from said positional data and said semantic information;  
4 and  
5 store said event model in an event model database.

1 24. The machine-readable medium of claim 23, wherein said sequences of  
2 instructions further cause said processor to query said event model database for  
3 officiating event data.

1 25. The machine-readable medium of claim 19, wherein said sequences of  
2 instructions further cause said processor to generate an animation based on said positional  
3 data.

1 26. The machine-readable medium of claim 25, wherein said sequences of  
2 instructions further cause said processor to transmit said animation to said officiating  
3 entity.

1 27. The machine-readable medium of claim 19, wherein said sequences of  
2 instructions further cause said processor to transmit said semantic information to an  
3 officiating interface.